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ABSTRACT

This document contains the proceedings of a conference held at the U.S. Military Academy to consider the question of core requirements for the courses often employed by partner disciplines, what concepts and procedural skills are really central, and how these questions might lead to the creation of a new undergraduate set of requirements that meet both the needs of mathematics departments and those of their partner disciplines. Chapters include: (1) "Core Curriculum in Context: History, Goals, Models, Challenges" (Lynn Arthur Steen); (2) "Response To Core Curriculum in Context: History, Goals, Models, Challenges" (Joan Ferrini-Mundy); (3) "Core Mathematics at the United States Military Academy: Leading into the 21st Century" (David C. Arney, William P. Fox, Kelley B. Mohrmann, Joseph D. Myers, and Richard A. West); (4) "Discrete Mathematics in the Core Curriculum" (Alan Tucker); (5) "Response to Discrete Mathematics in the Core Curriculum" (Martha Siegel); (6) "Calculus in the Core" (Wayne Roberts); (7) "Response to Calculus in the Core I: Parallels in Calculus" (David Heckman); (8) "Response to Calculus in the Core II: Calculus and Other 7-into-4 Issues" (Stephen Rodi); (9) "Calculus after High School Calculus" (Don Small); (10) "Response to Calculus after High School I" (Frank Wattenberg); (11) "Response to Calculus after High School Calculus II" (Jeanette Palmiter); (12) "Linear Algebra in the Core Curriculum" (Donald R. LaTorre); (13) "Response to Linear Algebra in the Core I" (David Carlson); (14) "Response to Linear Algebra in the Core II" (Anita E. Solow); (15) "Response to Linear Algebra in the Core III" (Steve Friedberg); (16) "Differential Equations in the Core Curriculum" (James V. Herod); (17) "Response to Differential Equations in the Core I" (Donald Bushaw); (18) "Response to Differential Equations in the Core II: ODEs Renewed" (Courtney Coleman); (19) "Response to Differential Equations in the Core III: Data Sets in the First Course of Differential Equations" (David O. Lomen); (20) "Probability and Statistics in the Core Curriculum" (David S. Moore); (21) "Response to Probability and Statistics in the Core I" (Ann E. Watkins); (22) "Response to Probability and Statistics in the Core II" (R.A. Kolb); (23) "Probability and Statistics in the Core III: Is It Really Such a Tight Squeeze?" (Sheldon P. Gordon); (24) "Evaluation of Mathematics Core

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Curriculum Conference, April 22-24, 1994" (Robert Orrill); (25) "A Curriculum Reform Workshop/Retreat" (Don Small); (26) "Carroll College Mathematics Curriculum Reform Project" (John Scharf and Marie Vanisko); (27) "A Preliminary Plan for Curriculum Change at Harvey Mudd College: N-into-Four" (Robert Borrelli, Robert Keller, and Michael Moody); (28) "Core Curriculum Reform Model for the Oklahoma State University" (James Choike); and (29) "Plan To Integrate Calculus II and III Curricula at University of Redlands" (J. Beery, P. Cornell, A. Killpatrick, and A. Koonce). (ASK)

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